RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number:	10/643,801A
Source:	MOCO - EFS
Date Processed by STIC:	(0-28-05

ENTERED



IFW16

RAW SEQUENCE LISTING DATE: 06/28/2005 PATENT APPLICATION: US/10/643,801A TIME: 15:14:22

Input Set : N:\efs\10643801A efs\RTS0678USSEQ.txt

Output Set: N:\CRF4\06282005\J643801A.raw

```
3 <110> APPLICANT: Sanjay Bhanot
             Kenneth W. Dobie
      6 <120> TITLE OF INVENTION: MODULATION OF DIACYLGLYCEROL ACYLTRANSFERASE 2 EXPRESSION
      8 <130> FILE REFERENCE: RTS-0678US
C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/643,801A
C--> 10 <141> CURRENT FILING DATE: 2003-08-18
     10 <160> NUMBER OF SEQ ID NOS: 233
     13 <210> SEQ ID NO: 1
     14 <211> LENGTH: 20
     15 <212> TYPE: DNA
     16 <213> ORGANISM: Artificial Sequence
     18 <220> FEATURE:
     20 <223> OTHER INFORMATION: Antisense Oligonucleotide
     22 <400> SEQUENCE: 1
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     28 <212> TYPE: DNA
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     31 <220> FEATURE:
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     40 <211> LENGTH: 20
     41 <212> TYPE: DNA
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     44 <220> FEATURE:
     46 <223> OTHER INFORMATION: Antisense Oligonucleotide
     48 <400> SEQUENCE: 3
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     52 <210> SEQ ID NO: 4
     53 <211> LENGTH: 2439
     54 <212> TYPE: DNA
     55 <213> ORGANISM: H. sapiens
     57 <220> FEATURE:
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     60 <221> NAME/KEY: CDS
     61 <222> LOCATION: (231)...(1397)
     63 <400> SEQUENCE: 4
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                                                                               60
                                                                              120
     66 gccaccactg gccgccggcc gcagctccag gtgtcctagc cgcccagcct cgacgccgtc
     68 ccqqqacccc tqtqctctqc qcqaaqccct qqccccqqqq gccggggcat qqqccagggg
                                                                              180
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Output Set: N:\CRF4\06282005\J643801A.raw

70 71 72	cgc	ggggt	iga a	agcgg	gctto	ac cá	gcgg	ggee	g tga	actgo	ggcg	ggct	tcaç		_	aag Lys	236
74	acc Thr	ctc Leu	ata Ile 5	gcc Ala	gcc Ala	tac Tyr	tcc Ser	ggg Gly 10	gtc Val	ctg Leu	cgc Arg	ggc Gly	gag Glu 15	cgt Arg	cag	gcc Ala	284
														ctg Leu			332
														tcc Ser			380
											agg			gtg Val		aag	428
90					atc					tgg				ttc Phe 80	ctt		476
94	_			gcc	_	-	_		ctc	_				tgc Cys		_	524
98	Cys		ctc Leu					tac Tyr					gtg Val	ttt Phe			572
102 103	2 aac	c aca	a cc	_	-		ggo Gly	ago		-	-	g tgg n Trp	gto	_		tgg n Trp 130	620
	7 Ala					r Phe					ccc Pro	c ato				g aag L Lys	668
110	aca l Thi				ı Lei					n Tyr					His	c ccc s Pro	716
	5 His			e Met					Phe					Thr		g gcc ı Ala	764
	Th:		ı Va	_	-			e Pro				-	tac Tyr	ctg	-	aca Thr	812
122 123	cto	g gca ı Ala	a ggo				ato Met	g cct				g gag g Glu	, tac			g tct Ser 210	860
126	5 gga 7 Gly	a ggt				gto Val	ago				ata Ile	a gac				tca Ser	908
130	aaq L Lys				ggo Gly	aat				c ato	gt				gc Ala	g gct a Ala	956
		g tct	cto			c ato	g cct	ggc			gca	a gto	acc			g aac	1004

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135	Glu	Ser	Leu	Ser	Ser	Met	Pro	Gly	Lys	Asn	Ala	Val	Thr	Leu	Arg	Asn	
136			245					250					255				
138	cgc	aag	ggc	ttt	gtg	aaa	ctg	gcc	ctg	cgt	cat	gga	gct	gac	ctg	gtt	1052
139	Arg	Lys	Gly	Phe	Val	Lys	Leu	Ala	Leu	Arg	His	Gly	Ala	Asp	Leu	Val	
140		260					265					270					
	CCC																1100
	Pro	Ile	Tyr	Ser	Phe	_	Glu	Asn	Glu	Val	_	Lys	Gln	Val	Ile	Phe	
	275					280					285					290	
	gag																1148
	Glu	Glu	Gly	Ser	_	Gly	Arg	Trp	Val	Gln	Lys	Lys	Phe	Gln	Lys	Tyr	
148					295					300					305		
	att																1196
	Ile	Gly	Phe		Pro	Cys	Ile	Phe	His	Gly	Arg	Gly	Leu	Phe	Ser	Ser	
152				310					315					320			
	gac																1244
	Asp	Thr		Gly	Leu	Val	Pro		Ser	Lys	Pro	Ile			Val	Val	
156			325					330					335	•			
	gga																1292
	Gly		Pro	Ile	Thr	Ile		Lys	Leu	Glu	His		Thr	Gln	Gln	Asp	
160		340					345					350					
	atc																1340
	Ile	Asp	Leu	Tyr	His		Met	Tyr	Met	Glu		Leu	Val	Lys	Leu		
	355					360					365					370	
	gac																1388
	Asp	Lys	His	Lys		Lys	Phe	Gly	Leu		Glu	Thr	Glu	Val		Glu	
168					375					380					385		
			tga	gcca	agcct	itc (gggg	ccaac	ct co	cctg	gagga	a aco	cagct	gca	aato	cactttt	1447
	Val																
																tataac	1507
																atttca	1567
																atctgg	1627
			-							-	_				-	cttctt	1687
		_			-	-	-		-	_	-	_			_	cccta	1747
					_				-	-			-			acgctc	1807
																gcacag	1867
																cccttc	1927
	-						_				-			_	-	ggatga	1987
																tgcag	2047
																gatgac	2107
																cagttt	2167
				_	_						_					ggcctg	2227
																actttt	2287
																gttctg	2347
										jacti	ttg	tata	atge	יננ (yaaaa	ataaat	2407
	gaaa					aa aa	aaaaa	aaaaa	a aa								2439
	<210																
	<211				<u> </u>												
210	<212	/ I	irt:	DNA													

211 <213> ORGANISM: Artificial Sequence

DATE: 06/28/2005

RAW SEQUENCE LISTING

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Input Set : N:\efs\10643801A_efs\RTS0678USSEQ.txt

Output Set: N:\CRF4\06282005\J643801A.raw

013	(000) DDD WIND	
	<220> FEATURE:	•
	<pre><223> OTHER INFORMATION: PCR Primer</pre>	
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	<210> SEQ ID NO: 6	
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231	cagacatcag gtactccctc aaca	24
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235	<211> LENGTH: 22	
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	<213> ORGANISM: Artificial Sequence	
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	<211> LENGTH: 20	
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	<213> ORGANISM: Artificial Sequence	
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287	<211> LENGTH: 2262	
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289	<213> ORGANISM: M. musculus	
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Output Set: N:\CRF4\06282005\J643801A.raw

294 295 297	293 <220> FEATURE: 294 <221> NAME/KEY: CDS 295 <222> LOCATION: (207)(1373) 297 <400> SEQUENCE: 11 298 ggtggccgcg cttcgctggc tttctgctca tctagggtgg cagcggctac ctacctcagc														60		
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				cgg Arg													281
				gga Gly													329
				agc Ser 45				-			_				-		377
				aga Arg													425
				gtc Val													473
				tac Tyr													521
				tgg Trp													569
				cag Gln 125													617
				ccc Pro													665
				atc Ile													713
	Ala			aac Asn													761
352	cct			agg Arg		tat Tyr					gct					atg	809
356				cgc Arg 205	gag	tac				gga					gtc		857

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/643,801A

DATE: 06/28/2005 TIME: 15:14:23

Input Set : N:\efs\10643801A_efs\RTS0678USSEQ.txt

Output Set: N:\CRF4\06282005\J643801A.raw

L:10 M:270 C: Current Application Number differs, Replaced Current Application No

L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:1241 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (19) SEQUENCE:

L:3831 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!

L:3835 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:232

L:3846 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!

L:3850 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:233